

09/609110

=> d his

(FILE 'CA' ENTERED AT 14:39:40 ON 26 JUL 2001)

DEL HIS  
E JACOB MICHAEL/IN  
L1 7 S E3-E4  
E RUMPLER KARLHEINZ/IN  
L2 1131 S HORIZONTAL(P) FLUID?(P) BED  
L3 11 S HORIZONTAL(P) FLUID?(P) BED(P) (DETERGENT# OR DETERGENT# OR  
TENS  
L4 16646 S (SEPARAT? OR GRAD? OR RETURN?) (P) (FINE# OR DUST?)  
L5 1 S L3 AND L4  
L6 4 S HORIZONTAL(P) FLUID?(P) BED AND (DETERGENT# OR DETERGENT# OR  
TE  
L7 33923 S (REDUC? OR LOWER?) (6A) (AIR OR FLOW OR SPEED)  
L8 8 S L2 AND L7  
L9 0 S L3 AND L7  
L10 0 S L3 AND GRADING

FILE 'USPATFULL' ENTERED AT 15:01:47 ON 26 JUL 2001

L11 67 S L3  
L12 21 S L11 AND L4  
L13 10 S L12 AND L7  
L14 9 S L6 AND L4  
L15 0 S L10

L6 4 HORIZONTAL(P) FLUID?(P) BED AND (DETERGENT# OR DETERSIVE# OR  
TENSI  
DE#)

=> d 1-4 l6 ti

L6 ANSWER 1 OF 4 CA COPYRIGHT 2001 ACS  
TI Air feeding apparatus for fluidized beds, useful in granulation

L6 ANSWER 2 OF 4 CA COPYRIGHT 2001 ACS  
TI Adsorption of anionic surfactants on granules for use in  
**detergents**

L6 ANSWER 3 OF 4 CA COPYRIGHT 2001 ACS  
TI Device for granulate production in a fluidized bed

L6 ANSWER 4 OF 4 CA COPYRIGHT 2001 ACS  
TI Sodium percarbonate

L6 ANSWER 1 OF 4 CA COPYRIGHT 2001 ACS

AN 132:295510 CA

TI Air feeding apparatus for fluidized beds, useful in granulation

IN Assmann, Georg; Raehse, Wilfried

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19850099	A1	20000504	DE 1998-19850099	19981029
	WO 2000025907	A1	20000511	WO 1999-EP7944	19991020
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	DE 1998-19850099		19981029		

L6 ANSWER 2 OF 4 CA COPYRIGHT 2001 ACS

AN 113:8456 CA

TI Adsorption of anionic surfactants on granules for use in **detergents**

IN Maden, John; Loudiadis, Lycourgos

PA Paterson, Zochonis (U.K.) Ltd., UK

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 353976	A1	19900207	EP 1989-307771	19890731
	R: ES, GR				
	WO 9001536	A1	19900222	WO 1989-GB873	19890731
	W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	AU 8940492	A1	19900305	AU 1989-40492	19890731
	AU 622925	B2	19920430		
	EP 404865	A1	19910102	EP 1989-909029	19890731
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	CA 1323278	A1	19931019	CA 1989-607122	19890731
	AT 97951	E	19931215	AT 1989-307771	19890731
	ES 2047677	T3	19940301	ES 1989-307771	19890731
PRAI	GB 1988-18613		19880805		
	EP 1989-307771		19890731		
	WO 1989-GB873		19890731		

L6 ANSWER 3 OF 4 CA COPYRIGHT 2001 ACS

AN 95:205887 CA

TI Device for granulate production in a fluidized bed

IN Mittelstrass, Manfred; Moerl, Lothar; Kuenne, Hans Joachim; Sachse, Joachim; Schmidt, Eberhard; Schultz, Wolfgang; Sieg, Norbert

PA Ger. Dem. Rep.

SO Ger. (East), 11 pp.

CODEN: GEXXA8

DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DD 139526	Z	19800109	DD 1978-208705	19781027

> d 1-8 18 ti

L8 ANSWER 1 OF 8 CA COPYRIGHT 2001 ACS

TI Flow of oil and sand in a horizontal well

L8 ANSWER 2 OF 8 CA COPYRIGHT 2001 ACS

TI Simulation of transport dynamics in fluidized-bed dryers

L8 ANSWER 3 OF 8 CA COPYRIGHT 2001 ACS

TI Method and **horizontal fluidized-bed** reactor  
for direct reduction of especially fine iron ores or iron ore  
concentrates

L8 ANSWER 4 OF 8 CA COPYRIGHT 2001 ACS

TI Process for drying vinyl chloride polymer wet cake and drier therefor

L8 ANSWER 5 OF 8 CA COPYRIGHT 2001 ACS

TI The open-channel flow of fluidized solids

L8 ANSWER 6 OF 8 CA COPYRIGHT 2001 ACS

TI In-bed heat exchangers

L8 ANSWER 7 OF 8 CA COPYRIGHT 2001 ACS

TI Ordered bed nuclear fuel assemblies

L8 ANSWER 8 OF 8 CA COPYRIGHT 2001 ACS

TI Oxychlorination of hydrocarbons

=> d 1-10 l13 ti

L13 ANSWER 1 OF 10 USPATFULL

TI Stabilized thermally beneficiated low rank coal and method of manufacture

L13 ANSWER 2 OF 10 USPATFULL

TI Method and apparatus for the classification of solid particles

L13 ANSWER 3 OF 10 USPATFULL

TI Stabilized thermally beneficiated low rank coal and method of manufacture

L13 ANSWER 4 OF 10 USPATFULL

TI Feed inlet floor for mobile bed reactors

L13 ANSWER 5 OF 10 USPATFULL

TI Method and apparatus for the dry grinding of solids

L13 ANSWER 6 OF 10 USPATFULL

TI Washing apparatus and method for fluidized bed pelletizing and drying machine

L13 ANSWER 7 OF 10 USPATFULL

TI Processes and means for waste resources utilization

L13 ANSWER 8 OF 10 USPATFULL

TI Method and apparatus for separating suspended solids from liquids

L13 ANSWER 9 OF 10 USPATFULL

TI Process for granulation of sulfur

L13 ANSWER 10 OF 10 USPATFULL

TI Reduction of iron ore in fluidized bed reactors

=> d 1-9 114 ti

L14 ANSWER 1 OF 9 USPATFULL

TI Method of preparing saccharose surfactant granulates

L14 ANSWER 2 OF 9 USPATFULL

TI Separation of minerals

L14 ANSWER 3 OF 9 USPATFULL

TI Fluidized-bed apparatus

L14 ANSWER 4 OF 9 USPATFULL

TI Apparatus for removing dust from gas with liquid filter cleaning nozzles

L14 ANSWER 5 OF 9 USPATFULL

TI Method for direct gasification of solid waste materials

L14 ANSWER 6 OF 9 USPATFULL

TI Method and apparatus for heat treating a particulate product

L14 ANSWER 7 OF 9 USPATFULL

TI Process for manufacturing particulate **detergent** composition directly from in situ produced anionic **detergent** salt

L14 ANSWER 8 OF 9 USPATFULL

TI Portland cement manufacture

L14 ANSWER 9 OF 9 USPATFULL

TI Catalytic reactor with dirt trap

L1 ANSWER 5 OF 7 CA COPYRIGHT 2001 ACS  
 AN 129:124178 CA  
 TI Fluidized-bed apparatus for treating dispersed materials and  
 solids-containing liquids  
 IN **Jacob, Michael**; Wessel, Axel; Ruempler, Karlheinz  
 PA Glatt Ingenieurtechnik G.m.b.H., Germany  
 SO Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM B01J008-24  
 ICS B01J002-16; B01J008-44; F26B003-08  
 CC 47-4 (Apparatus and Plant Equipment)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19700029	A1	19980709	DE 1997-19700029	19970102
AB	The app. contains an openings-contg. flow-in bottom and is divided with obstructions into stages. For controlling the material properties of the end products with respect to the moisture content, grain size, and grain edges, the opening ratio of the free surface:the total surface of the flow-in bottom increases in the direction of the material transport. The obstructions are arranged in such a way to form a gap between them and the flow-in such, and the velocity and amt. of the fluidizing medium supplied to the flow-in such is controlled by the arrangement of fans, dampers, etc.				
ST	fluidized bed app treatment dispersed material; solids contg liq treatment				
IT	fluidized bed				
IT	Disperse systems				
	Suspensions				
	(fluidized-bed app. for treating)				
IT	Fluidized beds				
	(for treating dispersed materials and solids-contg. liqs.)				



L3 11 HORIZONTAL(P) FLUID?(P) BED(P) (DETERGENT# OR DETERSIVE# OR  
TENSIDE  
# OR CLEANING OR WASHING)

=> d 1-11 13 ti

L3 ANSWER 1 OF 11 CA COPYRIGHT 2001 ACS

TI Air feeding apparatus for fluidized beds, useful in granulation

L3 ANSWER 2 OF 11 CA COPYRIGHT 2001 ACS

TI Fluidized-bed coating for preparation of coated peroxygen compounds,  
especially sodium percarbonate

L3 ANSWER 3 OF 11 CA COPYRIGHT 2001 ACS

TI Adsorption of anionic surfactants on granules for use in detergents

L3 ANSWER 4 OF 11 CA COPYRIGHT 2001 ACS

TI Washing of crude terephthalic acid

L3 ANSWER 5 OF 11 CA COPYRIGHT 2001 ACS

TI Device for granulate production in a fluidized bed

L3 ANSWER 6 OF 11 CA COPYRIGHT 2001 ACS

TI Continuously operated filtration-washing-drying apparatus for uranium  
tetrafluoride

L3 ANSWER 7 OF 11 CA COPYRIGHT 2001 ACS

TI Apparatus and method for washing by decantation

L3 ANSWER 8 OF 11 CA COPYRIGHT 2001 ACS

TI Sodium percarbonate

L3 ANSWER 9 OF 11 CA COPYRIGHT 2001 ACS

TI Countercurrent moving-bed ion exchangers

L3 ANSWER 10 OF 11 CA COPYRIGHT 2001 ACS

TI Preparation of sulfur compounds

L3 ANSWER 11 OF 11 CA COPYRIGHT 2001 ACS

TI Equipment for the production of a fluidized bed layer or for flowing-bed  
processes